Please cancel claims 17-37.

Please substitute the following claims for pending claims with the same numbers.

- A local network-capable device adapted for collaborative operation and communication over a network with at least one remote network-capable device to enable the local network-capable device and the remote network-capable device to cooperatively edit the same data, said local network-capable device comprising:
 - A) a memory for storing a local copy of the data in accordance with a data model:
 - B) a data-change engine coupled with the memory, and responsive to a plurality of data change requests, for controlling storage of the local copy of data in the memory in accordance with the data model and making changes to the local copy of the data; the data change requests including a locally-generated data change request and a remotely-generated data change request; and
 - coordinating execution of the data change requests; wherein the dynamics manager, responsive to the data change requests; wherein the dynamics manager, responsive to the data change requests, can cause the making of selected data changes in an order, the rolling-back of the selected data changes and the remaking of the selected data changes in another order so that the local copy of the data is consistent with a copy of the data maintained by the remote network-capable device.

The local network-capable device in accordance with claim 3, wherein the data change request priority scheme includes a dependency identifier in each data

change request, and the dynamics manager is responsive to the dependency identifier in causing rolling-back and remaking of data changes.

The local network-capable device in accordance with claim 7, wherein the dependency identifier specifies at least one data change request on which the encoded data change request depends.

8.

A distributed, coordinated system for maintaining plural copies of the same data pursuant to a distributed data model, wherein the copies can be changed responsive to users' actions, the system comprising:

- A) a plurality of computer systems, each of the computer systems capable of locally generating a plurality of data change requests for changing a local copy of the data and of executing data change requests including the locally-generated data change requests and remotely-generated data change requests generated by others of the computer systems so as to make the requested changes to the local copy of the data;
- B) each of the computer systems including a dynamics manager that receives locally-generated data change requests and remotely-generated data change requests for determining, responsive to information contained in the locally-generated and remotely-generated data change requests, an order in which requested changes are made to the local copy of the data, for making requested data changes in the determined order, for rolling-back data changes made when a remotely-generated data change request is received out of the determined order and for remaking requested data changes in a new order.

A framework apparatus for providing communication services for an activitybased collaboration system in which data change requests comprising deltas are communicated over a network between network-capable devices in order to

maintain consistency between local data copies, the framework apparatus comprising a communications manager operable on a local network capable device for sending locally-generated deltas over a network to at least one remote network-capable devices and for receiving remotely-generated deltas from the at least one remote network-capable device; and a dynamics manager responsive to dependency information contained in the deltas for determining an order for processing the deltas to make changes to each local data copy, the dynamics manager being responsive to the reception of a remotely-generated delta out of the determined order for causing the selective rollback of changes made to a local data copy and selective remaking of the rolled-back data changes in a new order.

15. A method for providing communication services for an activity-based collaboration system, in which data change requests comprising deltas are communicated over a network between network-capable devices in order to maintain consistency between local data copies, the method comprising the steps of:

A)

sending locally-generated deltas from a local network-capable device over a network to at least one remote network-capable devices and for receiving remotely-generated deltas from the at least one remote network-capable device;

B) determining an order for processing the deltas based on sequence information contained within the deltas;

C) processing the deltas in the determined order thereby making changes to a local data copy as requested by the deltas;

 rolling back requested changes made to the local data copy in response to sequence information contained within the deltas indicating that a remotely-generated delta has been received out of the determined order; and

E) remaking the rolled-back data changes in a new order.

Please cancel claim 16.